

Title (en)
Drive device for railway vehicle

Title (de)
Antriebsvorrichtung für ein Eisenbahnfahrzeug

Title (fr)
Dispositif de commande pour véhicule ferroviaire

Publication
EP 2492132 A3 20151230 (EN)

Application
EP 12154437 A 20120208

Priority
JP 2011035300 A 20110222

Abstract (en)
[origin: EP2492132A2] In conventional techniques, it is necessary to use a storage element having a large capacitance such as a lithium-ion battery and there are the problems of reduction in capacitance and cost of the system. Using a capacitor as a storage element, a path of a current flowing in a direction in which the capacitor is discharged is provided by a charge/discharge device in addition to a path of a current flowing in a direction in which the capacitor is charged by a high speed-range electric braking function, whereby a current corresponding to a difference in potential between a regenerative current (current flowing in the direction in which the capacitor is charged) and a chopper current from the charge/discharge device (current flowing in the direction in which the capacitor is discharged) is made to flow in the capacitor 7.

IPC 8 full level
B60L 7/10 (2006.01); **B60L 9/22** (2006.01); **B60L 11/00** (2006.01)

CPC (source: EP)
B60L 7/10 (2013.01); **B60L 9/22** (2013.01); **B60L 50/40** (2019.01); **B60L 2200/26** (2013.01); **Y02T 10/70** (2013.01)

Citation (search report)

- [X] JP 2006094613 A 20060406 - RAILWAY TECHNICAL RES INST, et al
- [X] JP 2001069604 A 20010316 - SHIZUKI ELECTRIC CO INC
- [XY] JP 2002369304 A 20021220 - HITACHI LTD
- [Y] JP 2009183078 A 20090813 - HITACHI LTD
- [E] EP 2578436 A1 20130410 - HITACHI LTD [JP]

Cited by
CN104210369A; RU174098U1; WO2020024259A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2492132 A2 20120829; EP 2492132 A3 20151230; EP 2492132 B1 20180711; JP 2012175802 A 20120910; JP 5401486 B2 20140129

DOCDB simple family (application)
EP 12154437 A 20120208; JP 2011035300 A 20110222